20020617.qrp v02_n589.qrl.20020617

Date: Mon, 17 Jun 2002 19:03:10 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2589

QRP-L Digest 2589

Topics covered in this issue include:

    by "Tony Fishpool" <tony@g4wif.fsnet.co.uk>
 20) [128232] Re: Resistor notation - showing me how to fish ....
    by David Hinerman <WD8CIV@worldnet.att.net>
 21) [128233] Re: BLT question
    by geoff allsup <gallsup@whoi.edu>
 22) [128234] Re: Resistor notation
    by "Leon Heller" <leon_heller@hotmail.com>
 23) [128235] Re: Resistor notation - showing me how to fish ....
    by "Leon Heller" <leon_heller@hotmail.com>
 24) [128236] Where is QRPDUPE?
    by W2AGN <w2agn@w2agn.net>
 25) [128237] Re: Where is QRPDUPE?
    by Phil Wheeler <w7ox@earthlink.net>
 26) [128238] Heathkit schematics online
    by Mike Czuhajewski <wa8mcq@comcast.net>
 27) [128239] Re: 12V SLAs on Sale...!
    by "Steve Lawrence" <Steve.Lawrence@ITWFEG.COM>
 28) [128240] General inquiry
    by <jfox6@houston.rr.com>
 29) [128241] Re: Where is QRPDUPE?
    by aluscre <aluscre@neo.rr.com>
 30) [128242] Re: Where is QRPDUPE?
    by W2AGN <w2agn@w2agn.net>
 31) [128243] Re: AT in PA (Antenna Testing Session)
    by "Ron McConnell" <rcmcc@earthlink.net>
 32) [128244] [OT] weatherproof tape for antennas?
    by Ken Hopper <khopper@uchicago.edu>
 33) [128245] Info on Butternut HF-2V 80/40M Vertical
    by "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
 34) [128246] DX QSO
    by "Juanjo Pastor" <ec5aca@wanadoo.es>
 35) [128247] TR LOG
    by "Donald Dorn" <DDORN@CWIS.NET>
 36) [128248] MFJ QRP For Sale
    by NA1XX@aol.com
 37) [128249] 60 meters..question ..when?..also..heath hw12or 16 on 60?
    by ve3ab@mail.mondenet.com
 38) [128250] OT: "Radio Row"
    by delphinus@brightok.net
 39) [128251] Weatherproof tape for antennas
    by "Karl Kanalz" <kkanalz@gcecisp.com>
 40) [128252] Re: Info on Butternut HF-2V 80/40M Vertical
    by Dave Sjolin <sjolin@swbell.net>
 41) [128253] For Sale: Butternut HF9V HF Vertical Antenna
    by Jim Larsen - AL7FS <AL7FS@arrl.net>

Date: Mon, 17 Jun 2002 01:23:22 +0200
From: "Johan Smet" <johan_smet@pandora.be>
To: <qrp-l@Lehigh.EDU>
Subject: [128213] UTC
Message-ID: <EIELKLLAKHJMDPPKMKALCEPBCGAA.johan_smet@pandora.be>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Guys,

Oh, if only you would agree on simply timing everything UT... there are
fellow hams in other countries trying to figure out your CST, etc. Dare to
go international (ARCI, remember?).

73,

Johan ON5EX

On Sat, Jun 15, 2002 at 05:42:00PM -0400, W2AGN wrote:
> On Sunday 16 June 2002 02:26, Doc Lindsey K0EVZ wrote:
> > Gang:
> >
> beginning at 0200-0400 UTC (that's early on Friday morning,
> > USA time).
>
>
> Duh...is this the SOC list? Or am I confused? (AGN?) 0200-0400Z Thursday
is
> like, Wednesday night for most of USA, no? But it says "Thursday evening"
so
> that must be 0200-0400Z UTC Friday, which would be morning UTC time, but
> evening USA time, the day before.

Since Doc originated the message on Sunday and the list resent it on
Saturday, it makes perfect sense to me....
Let's do the time warp again. --Rocky Horror Picture Show
72/73,
Bob, N7XY
QRP-L #1985, SOC #77

Date: Sun, 16 Jun 2002 16:29:09 -0700 (PDT)
From: Bill ROWLETT <kc4atu@yahoo.com>

To: kc8aon@juno.com,
        Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [128214] Re: Comments to FCC about 60M + Mag Loop Question
Message-ID: <20020616232909.15754.qmail@web14204.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Rick,

I too agree that a power limit can not be enforced,
but it is a small number who break the rules. Those of
us who play the game by the rules need to file our
thoughts with the FCC on this. I hope that you and
everyone else has also.

73 Bill kc4atu

Date: Sun, 16 Jun 2002 18:39:20 -0500
From: "David Bixler" <qrp@netins.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [128215] Four State QRP Group Meeting Report
Message-ID: <DBEPKBJHOOEAHCKKIHPFMEKHDDAA.qrp@netins.net>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hello fellow QRP'ers:

Well, yesterday we had an excellent meeting of the
Four State QRP Group. We even had some special guests
drop in for lunch. To find out who our guests were and
to see the photo report, surf over to:

http://www.w0ch.com/fsqrp/index.htm

By the way, looks like we will be having a QRP Field
Day next weekend. Please come join us for some QRP
outdoor fun if you can.

72, Dave

David Bixler   W0CH
Seneca, MO
Main Web Site: http://w0ch.com
Mirror Site: http://showcase.netins.net/web/w0ch

QRP: Little Radios, Big Fun!

Date: Mon, 17 Jun 2002 00:06:37 -0000
From: "WI8W" <wi8w@arrl.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>, <plburbank@kih.net>
Cc: "Steve McDonald" <jsm@gulfislands.com>
Subject: [128216] Re: ISS and Endeavour
Message-ID: <029001c21592$d9e3f900$6501a8c0@attbi.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

As far as I know the freq is 145.800 voice downlink and 144.490 voice uplink.. FM is the mode.

I listen on what seems like every pass but have never heard them. Guess I need a somewhat better 2 meter antenna than a vertical.

I used to hear MIR quite regularly when it was in orbit though.

I would guess that they have very little time to play radio up there but I keep listening just the same...maybe I will get lucky one of these days and I will certainly be looking for it FD weekend.

73 fellas and good luck

Thom WI8W

Date: Sun, 16 Jun 2002 19:55:08 -0500
From: "Gene Sailsbury" <gsailsbury@mobil1.net>
To: "Low Power" <qrp-l@Lehigh.EDU>
Subject: [128217] Index Labs QRP++ Microphone Help
Message-ID: <00bc01c21599$a110af40$4bc03fd8@mshome.net>
MIME-Version: 1.0

Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have just purchased a QRP++ and need a MIC for.
1. Can anyone tell me what MIC they used for it?
2. The manual calls for MFJ 285W which they do not
    carry anymore.
So need a little help getting this unit ready for field day.
Gene Sailsbury KC0IKY

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.370 / Virus Database: 205 - Release Date: 6/5/2002

Date: Sun, 16 Jun 2002 19:58:02 -0400 (EDT)
From: Stephan Greene <sgreene@patriot.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [128218] Hamsats & QRP (was Re: ISS and Endeavour
Message-ID: <Pine.LNX.4.44.0206161946450.20334-100000@tzion.greene.lan>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 17 Jun 2002, WI8W wrote:

> As far as I know the freq is 145.800 voice downlink and 144.490 voice
> uplink.. FM is the mode.

yes. From ANS:

Region 2/3 voice uplink: 144.490 MHz
 Worldwide downlink: 145.800 MHz

For info on ISS and *all* the other amatuer satellites, go to
http://www.amsat.org Satellite status on all the birds is sent weekly, as
are current orbital elements.

http://www.amsat.org/amsat/news/ans.html
http://www.amsat.org/amsat/keps/menu.html

Other FM low earth orbit (LEO) satellites include UO14, AO27, and PCSAT
(APRS digi).

Thanks to the FM "capture" effect and too many folks with big antennas AND amplifiers, working UO14 or AO27 at QRP can be a challenge (it's not impossible, just takes more skill, what else is new?), ESPECIALLY on Field Day (QRP on FD on these satellites is futile, IMHO).

ISS has a strong "rare DX" flavor, so pileups are the norm when they're on.

CW/SSB LEO satellites include RS12/13, FO20, and FO29. RS12/13 has a 15M uplink, so there will be a lot of stations heard on the passband that have no idea they're on the satellite as well.

The LEO satellites are generally workable at QRP power levels, esp. with moderate gain antennas. Wider passbands, longer passes (slightly higher orbits), and fewer power hogs than on the FM birds.

AO-40 *may* be workable at QRP power in CW but you'll need a lot of uplink antenna gain on 70cm to compensate (I used to do this on AO10 and AO13. I'm hoping to try it on A040 for Field Day, but doubt I'll have sufficient time to test everything beforehand, sigh)

With all satellites, try to be sure you can hear them before transmitting, remember that ISS is operating "split" simplex, the others are all full duplex.

have fun!

73 Steve
KS1G
(ex KA1LM)

Stephan A. Greene sgreene@patriot.net ka1lm@amsat.org

Date: Sun, 16 Jun 2002 21:29:43 -0400
From: Nils R Young <nilsbull@juno.com>
To: QRP-L@lehigh.edu
Subject: [128219] Them computer back up thingies & a queskin abt QST
Message-ID: <20020616.212950.-148953.0.nilsbull@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang,

I got a bunch of emails from folks about my recent computer problems. (Like how the guy at work tried to "improve" the BIOS by reflashing from files available on the mfg's server & how that killed the machine good.)

When I finally got the last remaster disk out of the machine (fifth remaster of the weekend), a little belt fell out with it.

Roger had CD drives & burners cheap. So I bought one each & am now trying to decipher the Symantec "Ghost" program info.

Now, for them what's been up to asking about when a certain QRP club (take yo pick, G), here's one: I found the June QST on a shelf in a local book store. My sub -- at least according to the ARRL site -- ain't up til March of next year.

So has anybody got their June Q-Street yet?

And anybody know the command line to make DigiPan more "sensitive"? Like all the other PSK-ish software I got will see anything that goes in the Line-In hole at the back of the computer 'cept for Digipan. That & figuring out how absolutely frequency sensitive some transformers can be . . .

Now that I have the DSP board in my '718, I can hear again -- at least better with all the noise pushed below the signals by some very seriously serious degree.

Maybe I should turn off the computer & go back to CW, eh?

73

Nils

Nils R. Bull Young -- W8IJN -- La Estancia de los Guajolotes Sonrientes
http://w8ijn.tripod.com -- http://members.fortunecity.com/nilsbull
"The island is closer than your memories are." -- Ian G. Bull Young, 15 Feb 2002

Date: Sun, 16 Jun 2002 20:53:38 -0500
From: Gary Lee <kb9zuv@arrl.net>
To: qrp-l@lehigh.edu
Subject: [128220] argonaut mic, thanks
Message-ID: <3.0.6.32.20020616205338.007d39e0@mailhost.ind.ameritech.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Thanks to all for replies on argonaut 509 mic. Thanks to the wiring
descriptions some sent, I realize that the shure 414 I have wired for my
atlas 210x should work just fine.

As a side question, Is there a physical way, ie.e. with a standard digital
multimeter, to determine if a mic is high or low impedance?
I've got the rs talking digital meter available.
Thanks again to all.

Gary Lee
kb9zuv

Date: Sun, 16 Jun 2002 21:55:44 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [128221] Re: HB: 4053 cmos switch as a mixer
Message-ID: <5.1.0.14.1.20020616214408.00b30e48@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 11:07 AM 6/16/2002 +0000, you wrote:

>>From: Steven Weber <kd1jv@moose.ncia.net>
>>Reply-To: kd1jv@moose.ncia.net
>>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>>Subject: HB: 4053 cmos switch as a mixer
>>Date: Sat, 15 Jun 2002 19:05:32 -0400
>>
>>If you happened to look at Steve, VE3SMA's "Spartan Sprint Special" rig in
>>this months ARS on line magazine, you would have seen he's got a pretty
>>unique rig there. I was especially interested in his use of a 74HC4053 as a
>>mixer. This is a fairly common analog multiplexing switch.
>
>I've seen a couple of DC Rx designs using the 4053. Apparently there can
>be a problem with the way the switches work, in that they don't 'break

>before make' which can affect the performance. I don't think the 4066 has
>this problem.
>
>It would probably need some careful testing to pin this down, though.
>
>I'm designing a mixer PCB using Colin Horrabin's circuit for the FST3125
>CMOS bus switch. This is supposed to be the ultimate mixer for HF. A lot
>more complex than Steve's, though and uses *lots* more power.

Leon,

The Linrad (Linux Radio) Web page metions that the 74HC4053 exhibits make-before-break operation, and indicates that the 74HC4052 is superior because it is break-before-make. Also, since it is a dual 1-of-4 switch, it is suitable for use as quadrature mixer (as in Tayloe Detector.)

Linrad is a Linux program that accepts quadrature audio from such a detector and performs the necessary phase shifting and summation to provide single-signal operation.

The links below gives simple schematics for making the quadrature mixer, and other pages on the same site give more elaborate designs (including one that includes AF feedback to increase te dynamic range).

Linrad home page:
http://ham.te.hik.se/~sm5bsz/linuxdsp/linrad.htm

Simple I/Q mixer:
http://ham.te.hik.se/~sm5bsz/linuxdsp/iqmixer.htm

Advanced I/Q mixer with feedback:
http://ham.te.hik.se/~sm5bsz/linuxdsp/rxiq/mixer.htm

I've been playing with using the two halves of the 'HC4052 as the receive and transmit mixers of a DSB transceiver. So far so good...

Dave

"You can fool some of the people all of the time. That's enough to make a living." - Lance Burton
---
Dave Hinerman
WD8CIV@att.net

Date: Sun, 16 Jun 2002 22:04:06 -0400
From: "w8diz" <w8diz@fpqrp.com>
To: <fpqrp-l@fpqrp.com>, <qrp-l@Lehigh.EDU>
Subject: [128222] Re: [fpqrp] Truffle Hunts
Message-ID: <01cb01c215a3$4504cbf0$39d81b41@cinci.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

OK...we have 5 volunteers...need 5 more.
You do NOT have to be a FP member to
participate in the TRUFFLE HUNT.

http://fpqrp.com/struffle.html

Who's next?

-Diz

----- Original Message -----
From: "w8diz" <w8diz@fpqrp.com>
To: <fpqrp-l@fpqrp.com>; <qrp-l@Lehigh.EDU>
Sent: Sunday, June 16, 2002 4:45 PM
Subject: [fpqrp] Truffle Hunts

Hello everyone...

Now that the Summer Fox Season is all set up, the Flying Pigs
will also schedule the pre-fox warm-up AKA the Truffle Hunt.
Schedule is 30 minutes running before the start of the FOX.

This is great practice for the FOX wannabe's :)
We will operate near 14060 Khz +/- 5 Khz, avoiding 14060 exactly.

If you want to give it a try and be a truffle, email me ASAP.

http://fpqrp.com/struffle.html

72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio
Clermont County - EM79uf - near Cincinnati; 39.218N - 84.305W
SOC-8 DLQRPAG-1454 ARCI-10226 ARS-781 QRPL-1998 10X-9389 CATT-26
FP#-1 http://home.cinci.rr.com/w8diz & http://kitsandparts.com

----

Date: Sun, 16 Jun 2002 21:29:41 -0500
From: "Kelly Ellison" <kelman@sofnet.com>
To: <qrp-l@lehigh.edu>
Subject: [128223] Great QRP weekend.
Message-ID: <004201c215a6$d6651b60$b932c840@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello all,

Had a great QRP weekend. First of all... my wife and son gave me a Elecraft K1 for Fathers Day!
Yesterday, I attended the Four State QRP get together with Doug KI6DS and a half a dozen other
nice QRP ops, ..and Looking forward to Field day with the group next weekend.
Hope everyone had a great Father's day.

72,

Kelly Ellison - WB0WQS

Date: Mon, 17 Jun 2002 01:25:36 -0400
From: "Terres Family" <terresfm@ncia.net>
To: <gsailsbury@mobil1.net>
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [128224] Re: Index Labs QRP++ Microphone Help
Message-ID: <000f01c215bf$6a4a8280$df82f3ce@computer>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

> I have just purchased a QRP++ and need a MIC for.
> 1. Can anyone tell me what MIC they used for it?
> 2. The manual calls for MFJ 285W which they do not

>   carry anymore.
> So need a little help getting this unit ready for field day.
> Gene Sailsbury KC0IKY

Hi Gene,

from the manual for the QRP++ (not the single +):
"Icom HM-65 and MFJ 285W can be used without modification."
"is designed for use with electret type microphones.""Many other microphones
may be used if the connector is rewired appropriately."

stereo (?mini) plug:
tip no connection
middle band MIC
band furthest from tip GND

------|GND| |MIC| |NC|

MIC connects to a 'normally open' PTT switch which connects to the positive
end of an electret element, the other end of the electret element connects
to GND
pretty simple

MIC------o/ o-------(+ electret)-------GND
               PTT

(try setting format to 'Plain Text' if it doesn't look right)

72/73 &good luck with field day
jerry aa1of
franconia nh

(so if you go to radio shack to make one i guess you would get the $1.99
electret element that has 2 connections and not the $2.99 one that has 3
connections)

Date: Mon, 17 Jun 2002 01:11:06 -0500
From: "Gordon Couger" <gcouger@provalue.net>
To: <TORourke@KaiserFT.com>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [128225] Re: Open air feeder impedance
Message-ID: <01de01c215c5$c474e150$ab2dccd0@home>
MIME-Version: 1.0
Content-Type: text/plain;

        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I think you can get 25 ohms using 4 open wires. I know you can get 50 ohms
in a size reasonable for a tower. If nothing else 2 sets of 4 wire feeders
in parallel would give you 25 ohms. The formula is in the Antenna book.

72
Gordon W5RED
----- Original Message -----
From: "Tim ORourke" <TORourke@KaiserFT.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, June 03, 2002 8:47 AM
Subject: Open air feeder impedance

: I need some assistance on calculating a 1/4 wave feeder assembly. Desired
: impedance is 25 ohm. I would like to use 1" square tube with 1/8" wall. I
: can calculate the impedance for a 7/8 Id sleeve and a 1/2" OD center
: conductor but wondering abt fudge factor for square outer conductor verses
: round outer conductor. Any thoughts? First thought hr is to ignore it and
: keep going.
: BTW I need to use the square tube for this project, details too long for
: list.
: Tim KG4CHX
:

Date: Mon, 17 Jun 2002 01:12:00 -0500
From: "Gordon Couger" <gcouger@provalue.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [128226] RE: Feild Day
Message-ID: <01e801c215c5$e4ad79f0$ab2dccd0@home>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Look for a place you can get up a good antenna. Two tall trees and full wave
loop at 60 feet will make up for a lot of power on 20. At night have a NEVIS
set up on 80 if you plan to stay the night when 20 dies and 40 goes long. If
you are limited to one antenna a 66 foot wire fed 16.5 feet from one end up
30 feet or so will be end fire on 20 and broad side on 40. Higher would be
better of course. It should be about 2:1 on 20 and 3:1 on 40. You can hang
dipoles for 10 and 15 on it as well.

Just because you are limited on power you don't have to be limited on antennas.

Gordon W5RED
----- Original Message -----
From: "Delbert Long" <ad6we@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Wednesday, May 29, 2002 4:34 PM
Subject: Field Day

: Having been licensed since 1974, it's about time I participated in Field
: Day, dontcha think? This will be my first year trying it out.
:
: Yesterday, I took a long drive, and scoped out what I think will be a good
: location in the mountains near here, and I wonder what the group might have
: to offer concerning successful QRP operation.
:
: Like...is it actually possible to hold a frequency without being blown away
: by the QRO guys, or is it better to try "hunt and pounce?"
:
: I expect to have a portable dipole at about 30 ft or so for 20 meters...
:
: http://www.qsl.net/w3ff/antenna_design.htm
:
: And an inverted vee from the same mast for 40 and 15.
:
: HW-8 putting out about 1 1/2 to 2 watts and (hopefully) my 2N2/40.
:
: Might try the SMK-1 a little bit just for fun....
:
:
: Any suggestions appreciated.
:
: Del, AD6WE
:
:
: ____
: Send and receive Hotmail on your mobile device: http://mobile.msn.com
:
:

Date: Mon, 17 Jun 2002 07:42:46 -0400
From: Alex <kr1st@amsat.org>
To: wi8w@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [128227] Re: ISS and Endeavour
Message-ID: <3D0DCB36.8BF9504C@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

WI8W wrote:

> I listen on what seems like every pass but have never heard them. Guess I
> need a somewhat better 2 meter antenna than a vertical.

A 19" whip is sufficient to hear them, which actually may very well
outperform any other vertical because of it's radiation pattern.
However, most of the time the digipeater is turned on for APRS support
when they are using it to make voice contacts.

73s,
--Alex
(KR1ST)

Date: Mon, 17 Jun 2002 08:14:35 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [128228] Re: HB: 4053 cmos switch as a mixer
Message-ID: <5.1.0.14.1.20020617075804.00a71530@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>>I've been playing with using the two halves of the 'HC4052 as the receive
>>and transmit mixers of a DSB transceiver. So far so good...
>
>Thanks for that, Dave. I was thinking of making Steve's Rx with a few
>mods. I'll use the 4052.

Leon,

The downside of the Tayloe detector is that it needs a 4x clock. I don't
know what the top switching frequency of the 'HC4052 is, but I'm pretty
sure it'll make 80M okay. Much higher and you many not be happy with the
performance.

Another idea I want to try, however, is to go ahead and use a quadrature LO (suitably squared for digital use) and drive the 4052's select inputs from it. That way you still get quadrature detection but with an on-frequency (instead of 4x) LO. It's more complex than the Tayloe design, requiring an RF phase shift network, but it'll allow slower parts like the 'HC4052 to serve at higher frequencies.

The thing to remember if trying this, is that the analog multiplexer will step through channels 0-1-3-2 instead of 0-1-2-3 with the digital divider. So you'll have to pick off your I and Q signals from different points. (I and Q are still 0 and 1, but -I and -Q trade places.)

I found a Design Idea in EDN Magazine some time ago for a fairly broadband RF quadrature network. It converts phase errors (which always happen) into amplitude errors (which, once converted to digital levels, don't matter) by taking the vector sum and difference of the outputs of the analog phase shift circuits. I'll post a scan of the article on my Web page once I get it scanned. Sadly, it's too old to be on EDN's Web site. It's a completely passive circuit, using only a couple of small baluns, two inductors and capacitors for phase shifting, and a terminating resistor.

Since I have more ideas than time, I wanted to pass these along so either a) someone else can use them or b) somebody smarter than me can point out the flaws in them, and save me the time of trying to make them work.

Dave

"You can fool some of the people all of the time. That's enough to make a living." - Lance Burton

---

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Mon, 17 Jun 2002 08:20:29 -0400
From: "John W. Nall" <nally@talstar.com>
To: <qrp-l@lehigh.edu>
Subject: [128229] Resistor notation
Message-ID: <001701c215f9$5f2140d0$0100a8c0@XPSYSTEM>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'm building a little project, and the schematic that I am using has some unusual (to me) notation for the resistors. For example, R1 is identified as "4R 80W" and R3 is identified as "OR15 5W."

I am not sure what this notation means -- if someone could clue me in, I would be grateful. I could make guesses, but would rather know for sure.

By the way, if you are kind enough to reply, if you would tell me the general notation (rather than just those two specific examples) that would be wonderful. Kind of along the lines of showing me how to fish rather than just giving me a fish. :-)

Thanks much,

John AF4WM

Date: Mon, 17 Jun 2002 08:38:00 -0400
From: "Lofstead, Jerry" <Jerry.Lofstead@McKesson.com>
To: "'brian@iquest.net'" <brian@iquest.net>,
        Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [128230] RE: 12V SLAs on Sale...!
Message-ID: <078F21595FA7D411B87B00805FA728E64A5009@atlexc02ntms.hboc.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="ISO-8859-1"

Simple solution! ..... NON Dangerous and mfgr. recommended..   Attach a charger across the battery and let it sit for a week or two. Check the voltage of the battery with the charger disconnected, in a couple of days to check battery status   It will usually recover unless it is dry.

If you want to sit and watch it... Apply 24 VDC current limited to the battery and watch the drawn current. This will "hurry up" the reforming of the battery. When you see current increasing, apply the proper 13.8 VDC and let it set a week or two to charge

Jerry
W3CDE

-----Original Message-----
From: Brian Murrey [mailto:brian@iquest.net]
Sent: Sunday, June 16, 2002 9:40 AM

To: Low Power Amateur Radio Discussion
Subject: Re: 12V SLAs on Sale...!

I bought one for $10...mine has a date stamp of 931218E

I should have paid attention.

It will not charge at all.

WV9N bought one too...his is fine.

----- Original Message -----
From: "KD5NWA" <KD5NWA@mbayona.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, June 15, 2002 12:24 AM
Subject: Re: 12V SLAs on Sale...!

> They had them on sale at Dayton for $10.00 but I didn't feel like
lugging
> them around.
>
> Cecil
> KD5NWA
>
> ----- Original Message -----
> From: "Conrad Weiss" <radman@best.com>
> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> Sent: Friday, June 14, 2002 6:26 PM
> Subject: 12V SLAs on Sale...!
>
>
> > Gangue,
> >
> > Mendelson Elecronics Co has a Father's Day Sale, featuring NEW
12V, 17AH
> > SLA batteries & other goodies. The price is certainly right on
these new
> > Portalac SLAs - $15.95 >less< %15 = $13.56 each!
> >
> > Medelson's is located in Dayton, OH 45402 ... so the next exercise
is
> > surfing to www.ups.com to calculate shipping costs to your QTH -
unless
> you
> > can are close enuff to drive there.

> >
> > The fine print: they have a minimum order of $20, so one is
tempted to
> > order *two* of these puppies for $27.11 + $4.00 handling. Then
calculate
> > your shipping based on 16 pounds per battery (gross weight.)
> >
> > I live on SF Bay.... hardly 'cross the street from these guys.
Yet, I had
> > their customer service rep calculate my total cost for two batts
shipped
> > UPS to my door. Total cost to me: $52.11. This gives me 2 - 12V,
17AH
> batts
> > - a total of 34AH in two 13.5 pound leak-proof packages. A nice
portable
> > power source for parkbench ops/car camping or even packing a
single batt
> > for a short hike in.
> >
> > For reference, a PowerSonic 12V, 18AH SLA costs me $47.50
(locally) + CA
> > tax - roughly twice as much. I can't vouch for these Father's Day
SLAs on
> > sale, as I haven't tried them - but the price is certainly right!
> >
> > Check it out at URL: http://www.meci.com/
> >
> > Description follows from their web page:
> >
> > New sealed lead acid battery. 12V, 17 AH.
> > 1/2" terminal leads with 1/4" hole.
> > Dimensions: 7" (w) x 3" (d) x 6-5/8" (h). Weight: 13.5 pounds.
> > Color: Grey
> > MFG: Portalac   MECI Part Number: 140-0094
> >
> > Their toll-free number is: 1-800-344-4465 & plastic is accepted.
> >
> > Let me know if you try 'em. There's still time to run 'em for
Battery
> Field
> > Day if you can pick them up. 34AH should give you *plenty* of
runtime for
> > FD; lots of air time for that K2 or FT817, eh ? No wimpy AC mains
or
> diesel
> > gensets... battery power yields big point scores for FD!
> >

> > Power onward,
> >
> > Conrad Weiss
> > NN6CW ..... not a rep for Mendelson's; never even been
there :)!
> > OR... have any of you guys heard of a better deal on Yuasas or
PowerSonics
> > ? :)
> >
> >
>
>

Date: Mon, 17 Jun 2002 14:01:38 +0100
From: "Tony Fishpool" <tony@g4wif.fsnet.co.uk>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [128231] Re: Resistor notation - showing me how to fish ....
Message-ID: <004801c215ff$30965ec0$1d7986d9@celeron>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Blame it on us Brits John. Just consider the multiplier as the place you
would put the decimal point.

So 4R is 4.0 ohms, and 0R15 is 0.15 ohms. We think it's a better system (but
then we would) because the decimal point can disappear when photocopied etc.

So a few more examples... 4K7 is 4.7K ohms , 5M6 is 5.6 Meg ohms etc...

The "W" is the power rating in watts so that 4 ohm resistor will be fun to
find :-)

Kind regards
Tony - G4WIF

----- Original Message -----
From: "John W. Nall" <nally@talstar.com>

> I'm building a little project, and the schematic that I am using has some
> unusual (to me) notation for the resistors. For example, R1 is identified
> as "4R 80W" and R3 is identified as "OR15 5W."
<snip>
> By the way, if you are kind enough to reply, if you would tell me the

> general notation (rather than just those two specific examples) that would
> be wonderful. Kind of along the lines of showing me how to fish rather
> than just giving me a fish. :-)

Date: Mon, 17 Jun 2002 09:13:27 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [128232] Re: Resistor notation - showing me how to fish ....
Message-ID: <5.1.0.14.1.20020617090455.00a5a550@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 02:01 PM 6/17/2002 +0100, you wrote:
>Blame it on us Brits John. Just consider the multiplier as the place you
>would put the decimal point.

Tony,

It's amazing how the pendulum has swung from the, well, "eccentric" British units (still in use in the U.S.) to the "super-efficient" Metric units now used over there.

I attended a conference on world energy markets and production last spring. The conference was addressed by a Brit who spoke on, among other things, natural gas production and consumption around the globe. He gave figures for Europe, Asia, and South America in therms, and for North America (with an aside on how we annoyingly persisted in using an archaic unit abandoned by Britain years ago) in BTUs.

There's no one so ready to point out sin as a reformed sinner. (Grin)

Dave

P.S. I happen to like that notation for component values - now if I could just buy parts marked that way. D.

"You can fool some of the people all of the time. That's enough to make a living." - Lance Burton
---
Dave Hinerman

WD8CIV@worldnet.att.net

Date: Mon, 17 Jun 2002 09:36:14 -0400
From: geoff allsup <gallsup@whoi.edu>
To: rfcdma@spinn.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [128233] Re: BLT question
Message-ID: <3D0DE5CE.51CAF4EE@whoi.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

rfcdma@spinn.net wrote:
>
> Been messing with my K1 and a portable
> dipole set up using twin lead and a BLT.
> The BLT tunes great on 40 and 30 but
> nothing on 20 or 15. Have used
> different lengths of wire from longer
> than 40 to resonant on 20 and it still
> doesn't work on 20 or 15. Instructions
> mention that it tunes on 40 thru 10
> using a nor cal doublet. What is a nor
> cal doublet? Any suggestions on why the
> tuner doesn't work for me on 20m?
> Thanks
> -Dave

Hi Dave

I've found the BLT to be touchier to tune on 20 and 15, but it does work; just VERY sharp, so always peak on RX noise first, then try to tune in dim light so you can see even the slightest dimming of the LED.

Norcal doublet as described to me is just a piece of 2-conductor zip cord / speaker wire pulled apart into a dipole, then secured with a cable tie at the mid-point and the rest of the wire is the feedline!! Simple. So for example, if you have 50 feet of speaker wire, and want to make a 20 meter "Norcal Doublet", you strip apart about the first 17 feet (for 33 ft dipole and a bit to make end loops to tie to support string/rope). Secure the mid point with a nylon cable tie, and the remaining 33 feet is your feedline. And offhand, I think going a little long on the dipole (low freq end of band) is better than being too short....

72,
geoff
--
****
Geoff Allsup, W1OH   gallsup@whoi.edu or w1oh@arrl.net
Upper Ocean Processes Group
Woods Hole Oceanographic Institution   Woods Hole, MA, USA
****

Date: Mon, 17 Jun 2002 13:37:48 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: nally@talstar.com, qrp-l@Lehigh.EDU
Subject: [128234] Re: Resistor notation
Message-ID: <F132GJ2TUSzbAUfKRfc0000b06d@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: "John W. Nall" <nally@talstar.com>
>Reply-To: nally@talstar.com
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: Resistor notation
>Date: Mon, 17 Jun 2002 08:20:29 -0400
>
>I'm building a little project, and the schematic that I am using has some
>unusual (to me) notation for the resistors. For example, R1 is identified
>as "4R 80W" and R3 is identified as "OR15 5W."
>
>I am not sure what this notation means -- if someone could clue me in, I
>would be grateful. I could make guesses, but would rather know for sure.

That notation is common in Europe. 4R (should really be 4R0) means 4.0 ohms,
and 0R15 means 0.15 ohms. 1K2 is 1.2K, and so on. Similarly for Cs and Ls:
1n5 is 1.5 nF and 4u7 is 4.7 uH.

73, Leon
--
Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: http://www.leonheller.com

---

Date: Mon, 17 Jun 2002 13:43:21 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: WD8CIV@worldnet.att.net, qrp-l@Lehigh.EDU
Subject: [128235] Re: Resistor notation - showing me how to fish ....
Message-ID: <F14979Sk4iS2fRu29io0000206e@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: David Hinerman <WD8CIV@worldnet.att.net>
>Reply-To: WD8CIV@worldnet.att.net

[deleted]

He gave figures for Europe, Asia, and South America in
>therms, and for North America (with an aside on how we annoyingly persisted
>in using an archaic unit abandoned by Britain years ago) in BTUs.
    ^^^^
British Thermal Units! I don't think we used them when I was at school over
40 years ago, although they have been used on domestic boilers for years.

73, Leon
--
Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: http://www.leonheller.com

_____
Chat with friends online, try MSN Messenger: http://messenger.msn.com

---

Date: Mon, 17 Jun 2002 11:03:14 -0400
From: W2AGN <w2agn@w2agn.net>
To: qrp-l@lehigh.edu
Subject: [128236] Where is QRPDUPE?
Message-ID: <3D0DC1F2.28115.812B4B@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7BIT
Content-description: Mail message body

I kinow K7RE's page moved, but I don't remember where. All the
links I have for QRPDUPE don't work. Anyone have the new one?

John L. Sielke W2AGN
http://www.w2agn.net

Date: Mon, 17 Jun 2002 08:14:35 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: w2agn@w2agn.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [128237] Re: Where is QRPDUPE?
Message-ID: <3D0DFCDB.2030207@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=windows-1252; format=flowed
Content-Transfer-Encoding: 7bit

All I have is this, John:

http://members.mato.com/bkassel/

73, Phil

W2AGN wrote:

>I kinow K7RE's page moved, but I don't remember where. All the
>links I have for QRPDUPE don't work. Anyone have the new one?
>
>John L. Sielke W2AGN
>http://www.w2agn.net
>

Date: Mon, 17 Jun 2002 11:27:27 -0400
From: Mike Czuhajewski <wa8mcq@comcast.net>
To: qrp-l@lehigh.edu, GQRP List <GQRP@yahoogroups.com>
Cc: wa8mcq@comcast.net
Subject: [128238] Heathkit schematics online
Message-ID: <000701c21613$7d5e0aa0$6501a8c0@gambrl01.md.comcast.net>
MIME-version: 1.0

Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

I stumbled across this site recently. It has schematics for a wide variety of Heathkit items, including the HW-7, HW-8 and HW-9. They are broken up into a number of files; the HW-7 is split into 4, the HW-8 into 8, and the HW-9 into 9. (The latter appears as a single file here, but it's actually a ZIP file.) The files are in either GIF or TIF format, depending on which rig you're looking at, and you'll have to paste them together if you want to look at the entire schematic at once. BTW, the site has schematics for some of their other rigs, too, including several in the HW and SB series.

http://www.circuitarchive.co.uk/heath.htm

73 and queue our pea DE WA8MCQ

Date: Mon, 17 Jun 2002 11:44:50 -0400
From: "Steve Lawrence" <Steve.Lawrence@ITWFEG.COM>
To: qrp-l@Lehigh.EDU
Subject: [128239] Re: 12V SLAs on Sale...!
Message-ID: <OF3C46C610.B6EA7E0C-ON85256BDB.005651A1-85256BDB.00567FF4@itwfeg.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

A quick Google search of the web reveals a number of sources for this product, and at a wide price range.

Steve
aa8af

aluscre <aluscre@neo.rr.com>
Sent by: owner-qrp-l@Lehigh.EDU
06/16/2002 11:41 AM
Please respond to aluscre

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
cc:
Subject: Re: 12V SLAs on Sale...!

Don't know if this might be of help
http://www.vdcelectronics.com/batteryminder.htm

Mike Yetsko wrote:

> Well, if it's trashed, and you have nothing left to loose....
>
> I've been told that in a fair number of situations, the failure mode of
> those things is a stratification of the gel. When that happens, it
> won't take a charge, pretty much no matter what you do.
>
> Well, within reason.
>
> Outside of reason, I've been told that some people have had success
> by shorting the things with another battery. That is, + to - and - to +
> to make a HUGE current flow through the failed battery for just a few
> seconds. (Hmm... I wonder how many times that 'few seconds' limit
> is due to the explosion of one of the batteries!)   This REPORTEDLY
> has recovered a few batteries for people. Key is 'a few seconds'!
>
> Now, I'm not saying do something reckless that may blow up a battery
> in your face, so I'd never post this as a 'try this'. I just posted
this
> as
> "I heard that..."   kind of thing. But... If "I" were to try it, I'd
> make
> sure I did it where any violent expansions would not injure me or any
> other person, or property.
>
> PLEASE remember, batteries that gas excessively CAN and WILL
> explode.
>
> Mike
>
> ----- Original Message -----
> From: "Brian Murrey" <brian@iquest.net>
> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> Sent: Sunday, June 16, 2002 9:40 AM
> Subject: Re: 12V SLAs on Sale...!
>
> > I bought one for $10...mine has a date stamp of 931218E
> >
> > I should have paid attention.
> >
> > It will not charge at all.
> >

> > WV9N bought one too...his is fine.

--
|-------------------------|
Anthony A. Luscre
K8ZT
Stow, Ohio
|-------------------------|
Visit My Website at
http://www.qsl.net/k8zt
|-------------------------|

Date: Mon, 17 Jun 2002 10:57:07 -0500
From: <jfox6@houston.rr.com>
To: "QRP" <qrp-l@lehigh.edu>
Subject: [128240] General inquiry
Message-ID: <002001c21617$a1bbe620$6125ae18@houston.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang,
I have an old model Hickok Signal Generator Model 4600.
I am trying to modify it to make a sweep oscillator etc.

However, Some good hearted soul with a clean fetish cleaned the tubes (al;l two of them).. One is still marked as 12AT7 but who knows what the other one is??

Anyone have a schematic of this little beast?

73,

Foxy
jfox6@houston.rr.com
http://www.qsl.net/w5hir

Date: Mon, 17 Jun 2002 12:31:37 -0400
From: aluscre <aluscre@neo.rr.com>
To: w2agn@w2agn.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [128241] Re: Where is QRPDUPE?
Message-ID: <200206171630.g5HGUov19727@clmboh1-smtp3.columbus.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have a link to QRP Dupe and a few other free FD logging programs on
software portion of my web site
http://www.qsl.net/k8zt/logging.html

W2AGN wrote:

> I kinow K7RE's page moved, but I don't remember where. All the
> links I have for QRPDUPE don't work. Anyone have the new one?
>
> John L. Sielke W2AGN
> http://www.w2agn.net

--
|--------------------------|
     Anthony A. Luscre
            K8ZT
        Stow, Ohio
|--------------------------|
    Visit My Website at
  http://www.qsl.net/k8zt
|--------------------------|

Date: Mon, 17 Jun 2002 12:09:09 -0400
From: W2AGN <w2agn@w2agn.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>,
        w7ox@earthlink.net
Subject: [128242] Re: Where is QRPDUPE?
Message-ID: <3D0DD165.21210.BD89BE@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Content-description: Mail message body

On 17 Jun 2002 at 8:14, Phil Wheeler wrote:

> All I have is this, John:
>
> http://members.mato.com/bkassel/
>
> 73, Phil
>

Thanks, that did it. I still had the old "dancris.com" address.

--

  _   _   _   _   _
 / \ / \ / \ / \ / \ John L. Sielke
(W)(2)(A)(G)(N) http://www.w2agn.net
 _/ _/ _/ _/ _/ ARCI, NJQRP,
ARQrp,GQRP,RSGB
Ex- K3HLU, W7JEF, W4MPC, N4JS

Date: Mon, 17 Jun 2002 12:07:55 -0400
From: "Ron McConnell" <rcmcc@earthlink.net>
To: <njqrp@njqrp.org>, "'.G-QRP Club'" <GQRP@egroups.com>,
        "'. QRP-L'" <qrp-l@lehigh.edu>
Cc: "Ron McConnell" <rcmcc@earthlink.net>
Subject: [128243] Re: AT in PA (Antenna Testing Session)
Message-ID: <000001c21619$25f67ee0$b3cba441@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="us-ascii"
Content-Transfer-Encoding: 7bit

Tom says,
"Just make up your 25 ft twin lead....
Next make two jumpers in 3 ft and 7 ft...
add banana jacks (male & female),..."

What Tom is suggesting is the approach that
Cecil Moore, W5DXP, uses for his all-band,
no-tuner doublet antenna. He has a panel
of lengths of 450 ohm feedline that
he inserts/removes to achieve a reasonable
impedance at the transceiver side.

http://www.qsl.net/w5dxp/notuner.htm

For home use, Cecil has 130 ft horizontal
center-fed doublet. The same idea should
do fine for a portable 66 ft inverted-V
with a couple of inserts as Tom suggests.

300 ohm twinlead should be fine
and easier to deal with than 450-ohm
ladder line on the trail.
Some of Gary N3GO O'Neill's work on J-poles
suggests that the 300 ohm impedance
is more optimum than 450 ohms
for such impedance matching work
See Gary's 1995 Communications Quarterly
article via the link at AA5TB's
end-fed/j-pole antenna page

http://www.qsl.net/aa5tb/

To get a good feel for how the
feed impedance of a dipole and the impedance
at the feedline transceiver end varies with
length, wire gauge, feedline type and length
and height above ground, ...
try G4FGQ's very neat, easy to use, _freeware_
DIPOLE3.exe program from

http://www.btinternet.com/~g4fgq.regp/

DIPOLE3 is set up for horizontal dipoles,
but the general behavior holds for
an inverted V.
While you are there you night as well
download the whole pile of G4FGQ's
small, handy, instructive antenna
and t-line programs.

Cheers, 73,

Ron McConnell
w2iol@arrl.net

PS: Ron, we will somehow, somewhere, sometime
arrange to do the battery exchange.
Thanks for your patience.

Date: Mon, 17 Jun 2002 13:44:07 -0500
From: Ken Hopper <khopper@uchicago.edu>
To: QRP-L <qrp-l@Lehigh.EDU>, steppir <steppir@yahoogroups.com>,
        towertalk <towertalk@contesting.com>
Subject: [128244] [OT] weatherproof tape for antennas?
Message-ID: <3D0E2DF7.10602@uchicago.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Hi, this is a little off topic. I am trying to find weatherproof tape for outdoor antennas. Anyone have a recommendation?

I used common duct tape and over a very short time it fell apart leaving ugly tails on my masts and wires. There must be something stronger and more waterproof.

Someone suggested type "88" but I was unable to find it at the local ACE Hardware store. Where hould I look? in a speciality catalog? i

Is there such a thing called "silicon tape" that matures into a single bond over time?

Thanks,
de ken n9vv
http://www.n9vv.com

Date: Mon, 17 Jun 2002 15:16:16 -0400
From: "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
To: qrp-l@Lehigh.EDU
Subject: [128245] Info on Butternut HF-2V 80/40M Vertical
Message-ID: <OFB06DBB86.8B7EDC93-ON85256BDB.0069AA97@and.us.ray.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

Looking for data on 80 and 40 performance from the 32' high vertical.

Please respond directly.

Ron - N1ZSW

Date: Mon, 17 Jun 2002 18:56:46 +0200
From: "Juanjo Pastor" <ec5aca@wanadoo.es>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [128246] DX QSO
Message-ID: <000b01c21620$2be83d00$c233243e@fer>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Hello everybody,

    I will be between 21.050 and 21.060 this evening at 20:00 UTC.
Hope to read some of you there!

73, 72 de Juanjo, EA5CHQ-EC5ACA. EA-QRP #104, G-QRP #9742,
QRP-L #1662.

Juanjo Pastor
C/San Roque, 4-1=BA
46460 Silla
SPAIN

e-mail: ea5chq@wanadoo.es
Tel.: +034 96 120 17 67
Movil: 651 35 35 11

Date: Mon, 17 Jun 2002 14:21:01 -0500
From: "Donald Dorn" <DDORN@CWIS.NET>
To: "QRP RADIO" <QRP-L@Lehigh.EDU>
Subject: [128247] TR LOG
Message-ID: <000b01c21634$1f125200$2e69a5d0@computer>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

In case anybody is interested, a freeware version of TR Log has been made
available for download. It supports a limited number of contests but Field
Day is one of them.

To get it go to http://www.qth.com/tr/free.html

Don   K5AAR

Date: Mon, 17 Jun 2002 14:56:26 EDT
From: NA1XX@aol.com
To: qrp-l@Lehigh.EDU
Subject: [128248] MFJ QRP For Sale
Message-ID: <186.9585837.2a3f8ada@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi Folks,
I have for sale a three year old MFJ 9020 cw rig fine condition, case repainted white to minimize thermal influences when in the field. Includes Whiterook MK-60ms keyer and Radio Shack Micronta 2.5 amp power supply. Asking $120, shipped to continental USA.
73
Mike
NA1XX
North Weymouth MA
email NA1XX@aol.com

Date: Mon, 17 Jun 2002 17:47:41 +0000
From: ve3ab@mail.mondenet.com
To: qrp-l@lehigh.edu
Subject: [128249] 60 meters..question ..when?..also..heath hw12or 16 on 60?
Message-ID: <200206172148.g5HLmwg06587@genesis.dmz.mondenet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Ive seen these posts on 60 meters..Im looking forward to a new low band..hopefully it wont be jammed with foreign broadcasters ..like 40 was..is.
Anyways..I have an old HW12 and I may be able to modify coverage.
Also ..i have an HW16..and there was a QST article on modifying it from 15 mtrs to 20 mtrs..so im sure it could be done in a similar fashion to get it on 60 mtrs!-a heterdyne osc crystal req'd..the PA tank circuit mod..new tap on coil..that sort of thing.
There was an old QST article in the 70-s aboiut modifying an HW12 into a three bander. My QST collection does not go back that

far..I wonder if anyone could send me the article(s)..Id gladly repay costs. I have a DDDS Vfo ..so im not worried about that angle. So could anyone give a projected estimate on just when we can start using 60 mtrs..so I can plan my projects..Also..how big a slice of sprectrum would we get?...73 Earl VE3AB

Date: Mon, 17 Jun 2002 16:34:19 US/Central
From: delphinus@brightok.net
To: qrp-l@lehigh.edu
Cc: n2ff@arrl.org
Subject: [128250] OT: "Radio Row"
Message-ID: <200206172133.QAA03307@mail2.brightok.net>

Hey,

There is a project afoot to gather audio artifacts related to the World Trade Center before, during, and after the diaster struck. The thing that caught my eye was the fact that it was called, "Radio Row" before the trade centers were built. Apparently, the site hosted the largest grouping of radio and electronics stores in the world!

They are asking for information. Surely some of you out there have QSL cards harking back to that site or purchased ham radios on "Radio Row?" Here's a chance to get some ham history into the news. Here is their plea...

  TELL US WHAT IS OUT THERE.
  If you have personal recordings, stories or remembrances,
  call NPR's SONIC MEMORIAL HOTLINE at (202) 408-0300 or
  email us info@sonicmemorial.org.

See <http://www.sonicmemorial.org/radiorow/radiorow.html> for the original article.

73, Matthew AD5AP

Date: Mon, 17 Jun 2002 17:05:01 -0500
From: "Karl Kanalz" <kkanalz@gcecisp.com>

To: <khopper@uchicago.edu>,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [128251] Weatherproof tape for antennas
Message-ID: <NFBBKOMEFGJGEBABODPOOEMKCFAA.kkanalz@gcecisp.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Ken,

Send me an e-mail with your [desired] mailing address. I'll send you
some wide tape (made by Thomas & Betts) that you can use for
truly weather-proof connections on your antenna(s). It's easy to apply,
non-gooey, self-vulcanizing into itself, and can be easily removed
with a pocket knife should you ever need to get to the "connection"
enclosed within. I've had this in use on antennas, baluns, outdoor
splices, et cetera for several years (even used it in mobile connections)
without a problem.   There's no exothermic or acidic action in the pro-
cess either!

Karl K - W8TIF
McKinney, Texas

-----Original Message-----
From: Ken Hopper
Sent: Monday, June 17, 2002 1:44 PM
To: Low Power Amateur Radio Discussion
Subject: [OT] weatherproof tape for antennas?

Hi, this is a little off topic. I am trying to find weatherproof tape for
outdoor antennas. Anyone have a recommendation?

I used common duct tape and over a very short time it fell apart leaving
ugly
tails on my masts and wires. There must be something stronger and more
waterproof.

Someone suggested type "88" but I was unable to find it at the local ACE
Hardware store. Where hould I look? in a speciality catalog? i

Is there such a thing called "silicon tape" that matures into a single bond
over time?

Thanks,
de ken n9vv
http://www.n9vv.com

Date: Mon, 17 Jun 2002 17:12:45 -0500
From: Dave Sjolin <sjolin@swbell.net>
To: Ronald_A_Pfeiffer@raytheon.com,
        Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [128252] Re: Info on Butternut HF-2V 80/40M Vertical
Message-ID: <055401c2164c$1c63e6f0$c7dfd840@DaveSjolin>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Ron, I have an HF-2V and I seldom find anything I cant work anywhere in the world on forty meters with only 100 watts. Put down a decent ground system (at least 12 radials, any length) and it will perform great for dx and for working say the west coast from here in the Midwest. It may not work as well for working stations a few hundred miles away because the angle of radiation may be too low for that.

On 80 meters it also works reasonably well. I can work into Europe or South America using 100 watts but more power is usually required. Stateside I can work anything I can hear.

I also have the 160 meter and 30 meter coils on my HF-2V. Thirty meters is fantastic. About the same as 40 meters. On 160 it works but not very well. Also on 160 the bandwidth is very narrow (swr under 2:1 is only about 20 khz).

With the antenna as described I can work 160, 80, 40, 30, 15, and surprisingly six meters without a tuner. Bandwidth with swr under 2:1 is about 75 khz on 80, entire band on 40, 30, and 15. Recently when my lawnmover cut the coax on my other HF antenna (Cushcraft R5). As a result I used the Butternut successfully at 100 watts on both 20 and 17 meters using the tuner in my Kenwood TS940S.

Note: Fifteen meters performance with the ground mounted Butternut is anywhere from a few db to a couple s-units better than 15 meter performance of my Cushcraft R5 which is mounted up about 15 feet.

Hope that helps. 73 de Dave, N0IT

----- Original Message -----
From: "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, June 17, 2002 2:16 PM

Subject: Info on Butternut HF-2V 80/40M Vertical

> Looking for data on 80 and 40 performance from the 32' high vertical.
>
> Please respond directly.
>
> Ron - N1ZSW
>
>
>

Date: Mon, 17 Jun 2002 14:19:23 -0800
From: Jim Larsen - AL7FS <AL7FS@arrl.net>
To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>
Subject: [128253] For Sale: Butternut HF9V HF Vertical Antenna
Message-ID: <3D0E606B.6D9A436D@ARRL.NET>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

AES price: HF9V BUTTERNUT HF VERTICAL $389.99 plus shipping

I have a Butternut HF9V HF Vertical Antenna for sale for $210.00. These are great verticals as mentioned over time on the QRP-L list. The manual is available at http://www.bencher.com/pdfs/00408IZV.pdf or from the main page of manuals at http://www.bencher.com/pdf_download.html . This antenna, Model HF9V - HF Vertical antenna covers 10, 12, 15, 17, 20, 30, 40 and 80 meters has been produced from 1997 to the Present. It is called a 9-band vertical but I am not sure why. I think the Model TBR-160-S, Top band resonator kit (160 meters) adds the ninth band (not included here).

This antenna includes 16 (one is short - hit by the mower) ground radials made of high quality teflon coated wire. The antenna has been in use this past winter and will be taken down upon sale. I believe the antenna to be only about 2 years old but I am the second owner. Aluminum is still in good condition although the very top aluminum piece has some character (a slight bend in it).

Shipping is to be paid by the buyer.

At this price you can afford to buy and try. If you have questions send an email or call me at 907-345-3190. If a picture is important to you, I

can shoot a few and email them to you (About 60-70K per shot). Even if
you are not interested, tell your friends or repost this message to your
local or regional mail reflector.

Thank you.

73, Jim
--
Jim Larsen, AL7FS, Anchorage, Alaska
(BP51cc) - 61.101 North, 149.824 West
mailto:al7fs@arrl.net - http://www.qsl.net/al7fs/

End of QRP-L Digest 2589
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